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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/005,483	11/09/2001	James Leroy Snell	125.003USR1	7202	
21967	7590 04/29/2005	005 · EXAMINER		INER	
HUNTON & WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. SUITE 1200			LIU, SHUWANG		
			ART UNIT	PAPER NUMBER	
			2634		
WASHINGTO	ON, DC 20006-1109		DATE MAILED: 04/29/2009	DATE MAILED: 04/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
Office Action Summary		10/005,483	SNELL ET AL.
		Examiner	Art Unit
		Shuwang Liu	2634
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet wi	th the correspondence address
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period of the provision of the pro	36(a). In no event, however, may a re y within the statutory minimum of thirt will apply and will expire SIX (6) MON e, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status			
1)⊠ 2a)⊠ 3)□	Responsive to communication(s) filed on <u>08 Files</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under Expression 1.	s action is non-final. nce except for formal matte	•
Disposit	ion of Claims		
5)⊠	Claim(s) <u>1-133</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) <u>30-35,91-96 and 123-133</u> is/are allow Claim(s) <u>1-29,36-90 and 97-122</u> is/are rejected Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration. ved. d.	
Applicat	ion Papers		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to l drawing(s) be held in abeyan tion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority ι	under 35 U.S.C. § 119		
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	ts have been received. Its have been received in A Trity documents have been U (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachmen	t(s)		
2) 🔲 Notic 3) 🔯 Inform	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) tr No(s)/Mail Date 2/10/03, 08/06/03.	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application (PTO-152)

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments with respect to claims 1-29, 36-90 and 97-122 have been considered but are most in view of the new ground(s) of rejection because of the amendment.
- 2. The rejection of claims 1-29, 36-90, and 97-122 under 35 U.S.C. 112 second paragraph should be corrected to the rejection of claims 1-29, 36-90 and 97-122.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-29, 36-90 and 97-122 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The amended "reducing an average DC signal component of the decoded information" as recited in claims 1, 17, 44, 62, 78, 105 and "reducing an average DC signal component of the encoded information" as recited in claims 36, 55, 97 and 116 are new matter. The new limitations were not described in the specification. As shown

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in the record, the applicant disclosed "More specifically, the Office Action alleges that is it unclear what "reducing an average DC signal component" refers to. As discussed above, column 6, lines 28-33 recites that "the Modified Walsh code may be generated by modulo two adding a fixed hexadecimal code to the basic or standard Walsh codes to thereby reduce the average DC signal component and thereby enhance overall performance. .. " As shown in the chart at column 6, lines 10-19, Basic Walsh code 00 is modified to 03, the modified Walsh code. As can be easily determined from the chart, the hexadecimal code 03 is added to the basic Walsh code. The Basic Walsh code set contains one member that is pure DC, as shown by 00. For Walsh codes sent as a spreading pattern, one would want a pseudo random sequence with many transitions and small DC components, as opposed to a pure DC code with no transitions. If repeated in communications, the pure DC member conveys little information and disrupts AC coupling. By adding the hexadecimal code, the pure DC member is transformed into a 03 component, which is no longer pure DC. Therefore, the average DC offset of the modified Walsh codes is substantially improved for AC coupling. Based on this explanation as fully supported by the original specification, Applicants believe the phrase "reducing an average DC signal component" clearly points out and identifies the claimed inventions of claims 1-29, 36-90 and 97-133." (see the response filed on March 05, 2004). The response clearly disclosed the reducing an average DC signal component of the basic Walsh code instead of the decoded information or the encoded information.

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5. Claims 1-29, 36-90 and 97-122 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification does not described "reducing an average DC signal component of the decoded information" as recited in claims 1, 17, 44, 62, 78, 105 and "reducing an average DC signal component of the encoded information" as recited in claims 36, 55, 97 and 116.

Allowable Subject Matter

- 6. Claims 30-35, 91-95 and 123-133 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to teach a baseband processor comprises a demodulator, which is configured to demodulate data packets by demodulating the header at the third format and for switching to the respective one of the first and second formats of the variable data after the header, a first carrier tracking loop for the third format, and a second carrier tracking loop for the first and second formats.

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Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shuwang Liu whose telephone number is 571 272-3036. The examiner can normally be reached on M-F, 7:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shuwang Liu

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Primary Examiner

April 19, 2005